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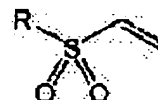
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(54) ELECTROLYTIC SOLUTION FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY USING SAME

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a lithium secondary battery excellent in battery characteristics such as cycle characteristics, electrical capacity, and preservation characteristics of the battery.

SOLUTION: As this electrolytic solution for a lithium secondary battery, an electrolytic solution having an electrolyte dissolved in a nonaqueous solvent is provided that contains a vinyl sulfone derivative expressed by the following general formula, (where, R is an alkyl group having the number of carbon atoms of 1 to 12, an alkenyl group having the number of carbon atoms of 1 to 12, or a cycloalkyl group having the number of carbon atoms of 3 to 6.), and a lithium secondary battery using this is also provided.

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